

40 CFR Part 51-Subpart S  
Inspection/Maintenance Program Requirements  
51.366  
Data Analysis and Reporting Requirements  
For the State of Indiana  
For the Calendar Year  
2013

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

The program shall submit to EPA by July of each year a report providing basic statistics on the testing program for January through December of the previous year, including:

- (1) The number of vehicles tested by model year and vehicle type:

229,669 vehicle tests

See the attached report:

(a)(1) Vehicles Tested by Model Year and Vehicle Type

**(a)(1) Vehicles Tested by Model Year and Vehicle Type**

MODEL YEAR	VEHICLE TYPE				TOTAL
	Type 1	Type 2	Type P	Other	
1976	0	3	10	0	13
1977	10	18	147	0	175
1978	2	15	17	0	34
1979	23	55	209	0	287
1980	1	5	15	0	21
1981	21	29	128	0	178
1982	2	1	17	0	20
1983	35	23	199	0	257
1984	5	8	55	0	68
1985	67	76	411	0	554
1986	7	8	71	0	86
1987	163	111	586	1	861
1988	71	24	111	0	206
1989	483	319	1,010	0	1,812
1990	59	52	142	0	253
1991	693	400	1,837	0	2,930
1992	111	97	332	0	540
1993	1,387	1,006	3,391	0	5,784
1994	282	216	445	0	943
1995	2,685	2,487	6,105	0	11,277
1996	369	223	744	0	1,336
1997	4,965	2,851	9,040	1	16,857
1998	565	319	1,078	0	1,962
1999	6,404	4,743	12,550	0	23,697
2000	666	381	1,401	0	2,448
2001	8,345	4,781	17,463	1	30,590
2002	706	400	1,494	0	2,600
2003	9,634	5,828	16,696	44	32,202
2004	462	379	988	1	1,830
2005	11,075	5,990	17,195	27	34,287
2006	411	358	745	0	1,514
2007	9,722	6,110	17,127	1	32,960
2008	236	340	565	0	1,141
2009	4,698	3,510	11,375	1	19,584
2010	113	126	123	0	362
<b>Grand Total</b>	<b>64,478</b>	<b>41,292</b>	<b>123,822</b>	<b>77</b>	<b>229,669</b>

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(i) Failing initially, per test type:

BAR-90, Single speed idle test,	164
IM-93, Enhanced I/M test,	5,146
OBD II, On-board diagnostic check,	12,687

See attached report:

(a)(2)(i) Vehicles Tested by Model Year and Vehicle Type: The Number and %  
Initially Failing per Test Type

## (a)(2)(i) Vehicles Testd by Model Year and Vehicle Type: The Number and % Initially Failing per Test Type

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P
IM-93 Enhanced Test	1981	2	9	29	0	40	5%	22%	72%
	1982	1	0	2	0	3	33%	0%	66%
	1983	7	5	44	0	56	12%	8%	78%
	1984	2	3	11	0	16	12%	18%	68%
	1985	13	18	91	0	122	10%	14%	74%
	1986	0	1	15	0	16	0%	6%	93%
	1987	34	28	111	0	173	19%	16%	64%
	1988	17	3	25	0	45	37%	6%	55%
	1989	88	67	179	0	334	26%	20%	53%
	1990	9	16	28	0	53	16%	30%	52%
	1991	155	93	393	0	641	24%	14%	61%
	1992	29	22	80	0	131	22%	16%	61%
	1993	263	243	735	0	1,241	21%	19%	59%
	1994	62	46	94	0	202	30%	22%	46%
	1995	466	528	1,006	0	2,000	23%	26%	50%
	1996	0	1	1	0	2	0%	50%	50%
	1997	0	11	7	0	18	0%	61%	38%
	1998	0	0	1	0	1	0%	0%	100%
	1999	0	20	0	0	20	0%	100%	0%
	2000	0	1	0	0	1	0%	100%	0%
	2001	0	12	1	0	13	0%	92%	7%
	2002	1	1	0	0	2	50%	50%	0%
	2003	0	12	0	0	12	0%	100%	0%
	2005	0	3	0	0	3	0%	100%	0%
OBDII Test	2007	0	1	0	0	1	0%	100%	0%
	1996	33	24	93	0	150	22%	16%	62%
	1997	583	295	1,065	0	1,943	30%	15%	54%
	1998	58	48	106	0	212	27%	22%	50%
	1999	542	405	1,203	0	2,150	25%	18%	55%
	2000	52	25	135	0	212	24%	11%	63%
	2001	733	303	1,720	0	2,756	26%	10%	62%
	2002	51	26	117	0	194	26%	13%	60%
	2003	634	295	1,110	0	2,039	31%	14%	54%
	2004	19	17	71	0	107	17%	15%	66%
	2005	509	263	789	0	1,561	32%	16%	50%
	2006	27	15	47	0	89	30%	16%	52%
	2007	259	158	546	0	963	26%	16%	56%
	2008	6	12	20	0	38	15%	31%	52%
	2009	61	45	148	0	254	24%	17%	58%
Single Speed Idle Test	2010	6	1	3	0	10	60%	10%	30%
	1976	0	2	2	0	4	0%	50%	50%
	1977	1	2	36	0	39	2%	5%	92%
	1978	1	3	2	0	6	16%	50%	33%
	1979	6	13	48	0	67	8%	19%	71%
	1980	1	1	5	0	7	14%	14%	71%
	1981	0	1	0	0	1	0%	100%	0%
	1983	0	0	3	0	3	0%	0%	100%
	1985	0	1	1	0	2	0%	50%	50%
	1986	0	0	2	0	2	0%	0%	100%
	1987	0	0	5	0	5	0%	0%	100%
	1989	0	0	5	0	5	0%	0%	100%
	1990	0	0	1	0	1	0%	0%	100%
	1991	0	0	3	0	3	0%	0%	100%
	1993	0	0	8	0	8	0%	0%	100%
	1995	2	1	8	0	11	18%	9%	72%
						17988			

5146

12678

164

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(ii) Failing the first retest per test type:

BAR-90, Single speed idle test	58
IM-93, Enhanced I/M test	2251
OBD II, On-board diagnostic check	2447

See attached report:

(a)(2)(ii) The Number and % Failing the First Retest per Test Type

(a)(2)(ii) The Number and % Failing the First Retest per Test Type

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P
	1981	0	4	14	0	18	0%	22%	77%
	1982	1	1	3	0	5	20%	20%	60%
	1983	3	1	21	0	25	12%	4%	84%
	1984	0	2	7	0	9	0%	22%	77%
	1985	5	7	31	0	43	11%	16%	72%
	1986	2	1	7	0	10	20%	10%	70%
	1987	14	11	52	0	77	18%	14%	67%
	1988	3	3	11	0	17	17%	17%	64%
	1989	38	30	68	0	136	27%	22%	50%
	1990	2	6	18	0	26	7%	23%	69%
	1991	61	40	191	0	292	20%	13%	65%
	1992	7	11	50	0	68	10%	16%	73%
	1993	112	110	316	0	538	20%	20%	58%
	1994	22	33	46	0	101	21%	32%	45%
	1995	193	243	408	0	844	22%	28%	48%
	1996	0	0	3	0	3	0%	0%	100%
	1997	1	4	6	0	11	9%	36%	54%
	1999	1	6	2	0	9	11%	66%	22%
	2000	0	0	2	0	2	0%	0%	100%
	2001	0	3	3	0	6	0%	50%	50%
	2002	0	1	2	0	3	0%	33%	66%
	2003	0	3	1	0	4	0%	75%	25%
IM-93 Enhanced Test	2005	0	4	0	0	4	0%	100%	0%
	1996	23	14	37	0	74	31%	18%	50%
	1997	132	79	217	0	428	30%	18%	50%
	1998	24	17	45	0	86	27%	19%	52%
	1999	119	78	234	0	431	27%	18%	54%
	2000	31	9	59	0	99	31%	9%	59%
	2001	140	58	337	0	535	26%	10%	62%
	2002	25	6	45	0	76	32%	7%	59%
	2003	94	27	202	0	323	29%	8%	62%
	2004	10	4	31	0	45	22%	8%	68%
	2005	68	22	97	0	187	36%	11%	51%
	2006	8	5	12	0	25	32%	20%	48%
	2007	35	15	60	0	110	31%	13%	54%
	2008	1	2	5	0	8	12%	25%	62%
OBDII Test	2009	4	3	13	0	20	20%	15%	65%
	1976	0	1	0	0	1	0%	100%	0%
	1977	1	1	13	0	15	6%	6%	86%
	1978	0	3	1	0	4	0%	75%	25%
	1979	2	3	11	0	16	12%	18%	68%
	1980	0	2	1	0	3	0%	66%	33%
	1983	0	0	1	0	1	0%	0%	100%
	1984	0	0	1	0	1	0%	0%	100%
	1987	1	0	4	0	5	20%	0%	80%
	1989	1	0	2	0	3	33%	0%	66%
	1991	0	0	3	0	3	0%	0%	100%
	1993	0	0	1	0	1	0%	0%	100%
Single Speed Idle Test	1995	2	0	3	0	5	40%	0%	60%
						4756			

2251

2447

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(iii) Passing the first retest per test type:

BAR-90, Single speed idle test	66
IM-93, Enhanced I/M test	2,106
OBD II, On-board diagnostic check	12,982

See attached report:

(a)(2)(iii) The Number and % Passing the First Retest per Test Type



## (a)(2)(iii) The Number and % Passing the First Retest per Test Type

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P
	1981	2	2	9	0	13	15%	15%	69%
	1982	0	0	2	0	2	0%	0%	100%
	1983	1	2	11	0	14	7%	14%	78%
	1984	0	1	4	0	5	0%	20%	80%
	1985	3	6	35	0	44	6%	13%	79%
	1986	0	1	4	0	5	0%	20%	80%
	1987	14	14	33	0	61	22%	22%	54%
	1988	11	2	7	0	20	55%	10%	35%
	1989	42	27	75	0	144	29%	18%	52%
	1990	8	7	16	0	31	25%	22%	51%
	1991	66	41	145	0	252	26%	16%	57%
	1992	12	6	25	0	43	27%	13%	58%
	1993	121	103	264	0	488	24%	21%	54%
	1994	28	23	29	0	80	35%	28%	36%
	1995	191	200	392	0	783	24%	25%	50%
	1996	0	1	0	0	1	0%	100%	0%
	1997	3	6	10	0	19	15%	31%	52%
	1998	2	0	4	0	6	33%	0%	66%
	1999	3	12	8	0	23	13%	52%	34%
	2000	0	1	2	0	3	0%	33%	66%
	2001	9	6	13	0	28	32%	21%	46%
	2002	1	1	2	0	4	25%	25%	50%
	2003	5	7	6	0	18	27%	38%	33%
	2004	0	0	3	0	3	0%	0%	100%
	2005	3	3	4	0	10	30%	30%	40%
	2006	2	0	2	0	4	50%	0%	50%
	2007	0	0	1	0	1	0%	0%	100%
	IM-93 Enhanced Test	0	1	0	0	1	0%	100%	0%
	1996	41	29	82	0	152	26%	19%	53%
	1997	479	226	792	0	1,497	31%	15%	52%
	1998	80	45	137	0	262	30%	17%	52%
	1999	520	375	1,098	0	1,993	26%	18%	55%
	2000	77	37	163	0	277	27%	13%	58%
	2001	762	398	1,520	0	2,680	28%	14%	56%
	2002	96	39	192	0	327	29%	11%	58%
	2003	691	378	1,109	0	2,178	31%	17%	50%
	2004	57	43	112	0	212	26%	20%	52%
	2005	575	321	872	0	1,768	32%	18%	49%
	2006	49	24	72	0	145	33%	16%	49%
	2007	322	195	554	0	1,071	30%	18%	51%
	2008	16	18	36	0	70	22%	25%	51%
	2009	74	65	201	0	340	21%	19%	59%
	OBDII Test	6	2	2	0	10	60%	20%	20%
	1976	0	0	1	0	1	0%	0%	100%
	1977	0	2	11	0	13	0%	15%	84%
	1978	0	3	0	0	3	0%	100%	0%
	1979	1	7	24	0	32	3%	21%	75%
	1985	1	1	0	0	2	50%	50%	0%
	1986	0	0	1	0	1	0%	0%	100%
	1987	0	0	2	0	2	0%	0%	100%
	1989	0	0	1	0	1	0%	0%	100%
	1990	0	0	2	0	2	0%	0%	100%
	1991	1	0	0	0	1	100%	0%	0%
	1993	0	0	5	0	5	0%	0%	100%
	1995	0	0	2	0	2	0%	0%	100%
	Single Speed Idle Test	0	0	1	0	1	0%	0%	100%
						15154			

2106

12982

66

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(iv) Passing the second or subsequent retest per test type:

BAR-90, Single speed idle test	106
IM-93, Enhanced I/M test	3,888
OBD II, On-board diagnostic check	18,067

See attached report:

(a)(2)(iv) The Number and % Passing the 2<sup>nd</sup> or Subsequent Retest per Test Type

## (a)(2)(iv) The Number and % Passing the 2nd or Subsequent Tests per Test Type

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P	
IM-93 Enhanced Test	1981	2	4	19	0	25	8%	16%	76%	3888
	1982	0	0	2	0	2	0%	0%	100%	
	1983	3	2	24	0	29	10%	6%	82%	
	1984	0	2	7	0	9	0%	22%	77%	
	1985	6	11	49	0	66	9%	16%	74%	
	1986	0	1	7	0	8	0%	12%	87%	
	1987	23	20	63	0	106	21%	18%	59%	
	1988	14	4	13	0	31	45%	12%	41%	
	1989	74	50	114	0	238	31%	21%	47%	
	1990	10	10	30	0	50	20%	20%	60%	
	1991	103	74	264	0	441	23%	16%	59%	
	1992	20	18	61	0	99	20%	18%	61%	
	1993	193	183	475	0	851	22%	21%	55%	
	1994	53	51	81	0	185	28%	27%	43%	
	1995	310	375	644	0	1,329	23%	28%	48%	
	1996	1	1	5	0	7	14%	14%	71%	
	1997	10	10	25	0	45	22%	22%	55%	
	1998	4	1	13	0	18	22%	5%	72%	
	1999	11	18	20	0	49	22%	36%	40%	
	2000	4	5	9	0	18	22%	27%	50%	
	2001	25	14	85	0	124	20%	11%	68%	
	2002	5	4	15	0	24	20%	16%	62%	
	2003	10	9	36	0	55	18%	16%	65%	
	2004	2	1	7	0	10	20%	10%	70%	
	2005	12	8	15	0	35	34%	22%	42%	
	2006	4	0	4	0	8	50%	0%	50%	
	2007	12	3	5	0	20	60%	15%	25%	
	2008	0	0	1	0	1	0%	0%	100%	
	2009	4	1	0	0	5	80%	20%	0%	
OBDII Test	1996	78	41	141	0	260	30%	15%	54%	18067
	1997	659	296	1,040	0	1,995	33%	14%	52%	
	1998	132	65	231	0	428	30%	15%	53%	
	1999	677	481	1,452	0	2,610	25%	18%	55%	
	2000	131	62	296	0	489	26%	12%	60%	
	2001	1,125	550	2,163	0	3,838	29%	14%	56%	
	2002	161	64	337	0	562	28%	11%	59%	
	2003	910	475	1,576	0	2,961	30%	16%	53%	
	2004	82	64	203	0	349	23%	18%	58%	
	2005	790	414	1,182	0	2,386	33%	17%	49%	
	2006	70	38	120	0	228	30%	16%	52%	
	2007	413	262	734	0	1,409	29%	18%	52%	
	2008	22	25	56	0	103	21%	24%	54%	
	2009	95	82	256	0	433	21%	18%	59%	
Single Speed Idle Test	2010	6	2	3	0	11	54%	18%	27%	106
	1976	0	0	1	0	1	0%	0%	100%	
	1977	1	3	18	0	22	4%	13%	81%	
	1978	0	5	1	0	6	0%	83%	16%	
	1979	3	10	32	0	45	6%	22%	71%	
	1980	0	1	2	0	3	0%	33%	66%	
	1983	0	0	1	0	1	0%	0%	100%	
	1984	0	0	1	0	1	0%	0%	100%	
	1985	1	1	0	0	2	50%	50%	0%	
	1986	0	0	1	0	1	0%	0%	100%	
	1987	0	0	4	0	4	0%	0%	100%	
	1989	0	0	2	0	2	0%	0%	100%	
	1990	0	0	2	0	2	0%	0%	100%	
	1991	1	0	0	0	1	100%	0%	0%	
	1993	0	0	5	0	5	0%	0%	100%	
	1995	2	0	7	0	9	22%	0%	77%	
	1996	0	0	1	0	1	0%	0%	100%	
						22056				

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(v) Initially failed vehicles receiving a waiver:

Total 905

See attached report:

(a)(2)(v) Initially Failed Vehicles Receiving a Waiver, 2013

**(a)(2)(v) Initially Failed Vehicles Receiving a Waiver, 2013**

MODEL YEAR	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1976	0	0	1	0	1	0%	0%	100%
1977	0	0	3	1	4	0%	0%	75%
1978	0	0	1	0	1	0%	0%	100%
1979	0	1	6	2	9	0%	11%	66%
1980	0	0	2	1	3	0%	0%	66%
1981	0	0	5	0	5	0%	0%	100%
1982	0	0	2	3	5	0%	0%	40%
1983	0	0	12	0	12	0%	0%	100%
1984	0	0	2	0	2	0%	0%	100%
1985	0	0	13	1	14	0%	0%	92%
1986	0	0	2	0	2	0%	0%	100%
1987	0	4	12	4	20	0%	20%	60%
1988	0	0	4	0	4	0%	0%	100%
1989	5	0	12	1	18	27%	0%	66%
1990	0	1	1	0	2	0%	50%	50%
1991	3	2	16	1	22	13%	9%	72%
1992	1	1	2	0	4	25%	25%	50%
1993	5	2	18	0	25	20%	8%	72%
1994	2	1	6	1	10	20%	10%	60%
1995	5	4	34	0	43	11%	9%	79%
1996	0	1	6	0	7	0%	14%	85%
1997	4	2	21	0	27	14%	7%	77%
1998	0	1	6	1	8	0%	12%	75%
1999	8	6	43	10	67	11%	8%	64%
2000	2	2	6	0	10	20%	20%	60%
2001	6	5	70	13	94	6%	5%	74%
2002	3	4	6	1	14	21%	28%	42%
2003	5	6	60	10	81	6%	7%	74%
2004	0	0	5	2	7	0%	0%	71%
2005	8	3	91	15	117	6%	2%	77%
2006	1	0	10	0	11	9%	0%	90%
2007	6	10	124	1	141	4%	7%	87%
2008	0	1	3	0	4	0%	25%	75%
2009	6	4	99	1	110	5%	3%	90%
2010	0	0	1	0	1	0%	0%	100%
					905			

2012 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(vi) Vehicles with no known final outcome (regardless of reason)

Please see section (d)(2)(ii) and review "Registrations and Compliance Analysis 2012/2013"

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(vii) – (x) [Reserved]

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xi) Passing the on-board diagnostic check

166,281

See attached report:

(a)(2)(xi) Passing the On-Board Diagnostic Test, 2013



(a)(2)(xi) Passing the On-Board Diagnostic Test, 2013

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1991	0	0	1	0	1	0%	0%	100%
1993	0	0	1	0	1	0%	0%	100%
1995	0	1	2	0	3	0%	33%	66%
1996	225	141	437	0	803	28%	17%	54%
1997	3,609	2,061	6,719	1	12,390	29%	16%	54%
1998	360	169	636	0	1,165	30%	14%	54%
1999	5,137	3,549	9,631	0	18,317	28%	19%	52%
2000	423	229	856	0	1,508	28%	15%	56%
2001	5,944	3,380	12,437	1	21,762	27%	15%	57%
2002	462	255	874	0	1,591	29%	16%	54%
2003	8,031	4,654	13,294	42	26,021	30%	17%	51%
2004	351	272	684	1	1,308	26%	20%	52%
2005	9,629	5,052	15,047	27	29,755	32%	16%	50%
2006	323	264	570	0	1,157	27%	22%	49%
2007	9,010	5,499	15,901	1	30,411	29%	18%	52%
2008	210	269	481	0	960	21%	28%	50%
2009	4,528	3,303	10,989	1	18,821	24%	17%	58%
2010	105	88	114	0	307	34%	28%	37%
					166281			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xii) Failing the on-board diagnostic check

16,212

See attached report:

(a)(2)(xii) Failing the On-Board Diagnostic Test, 2013

**(a)(2)(xii) Failing the On-Board Diagnostic Test, 2013**

OBD TESTS		VEHICLE TYPE				PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1991	0	0	1	0	1	0%	0%	100%
1996	67	43	154	0	264	25%	16%	58%
1997	766	397	1,365	0	2,528	30%	15%	53%
1998	98	73	190	0	361	27%	20%	52%
1999	703	514	1,526	0	2,743	25%	18%	55%
2000	103	44	230	0	377	27%	11%	61%
2001	944	401	2,226	0	3,571	26%	11%	62%
2002	90	35	203	0	328	27%	10%	61%
2003	760	334	1,386	0	2,480	30%	13%	55%
2004	36	23	118	0	177	20%	12%	66%
2005	604	292	929	0	1,825	33%	16%	50%
2006	39	21	69	0	129	30%	16%	53%
2007	302	174	620	0	1,096	27%	15%	56%
2008	7	14	28	0	49	14%	28%	57%
2009	65	48	160	0	273	23%	17%	58%
2010	6	1	3	0	10	60%	10%	30%
					16212			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xiii) Failing the on-board diagnostic check and passing the tailpipe test  
(if applicable)

Not applicable

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xiv) Failing the on-board diagnostic check and failing the tailpipe test  
(if applicable)

Not applicable

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xv) Passing the on-board diagnostic check and failing the I/M gas cap  
evaporative test (if applicable)

48

See attached report:

(a)(2)(xv) Vehicles Passing OBD Test and Failing Gas Cap, 2013

(a)(2)(xv) Vehicles Passing OBD Test and Failing Gas Cap, 2013

OBD TESTS		VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year		Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1997		4	0	3	0	7	57%	0%	42%
1999		0	0	2	0	2	0%	0%	100%
2001		0	0	5	0	5	0%	0%	100%
2003		1	1	3	0	5	20%	20%	60%
2004		0	0	2	0	2	0%	0%	100%
2005		3	1	10	0	14	21%	7%	71%
2007		2	2	6	0	10	20%	20%	60%
2009		0	0	3	0	3	0%	0%	100%

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xvi) Failing the on-board diagnostic check and passing the I/M gas cap  
evaporative system test (if applicable)

16,190

See attached report:

(a)(2)(xvi) Vehicles Failing OBD Test and Passing Gas Cap, 2013



**(a)(2)(xvi) Vehicles Failing OBD Test and Passing Gas Cap, 2013**

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1991	0	0	1	0	1	0%	0%	100%
1996	64	43	154	0	261	24%	16%	59%
1997	764	397	1,363	0	2,524	30%	15%	54%
1998	98	73	190	0	361	27%	20%	52%
1999	703	514	1,525	0	2,742	25%	18%	55%
2000	103	44	230	0	377	27%	11%	61%
2001	943	401	2,225	0	3,569	26%	11%	62%
2002	90	35	202	0	327	27%	10%	61%
2003	760	333	1,383	0	2,476	30%	13%	55%
2004	36	23	118	0	177	20%	12%	66%
2005	603	291	927	0	1,821	33%	15%	50%
2006	39	21	69	0	129	30%	16%	53%
2007	302	174	618	0	1,094	27%	15%	56%
2008	7	14	28	0	49	14%	28%	57%
2009	65	48	159	0	272	23%	17%	58%
2010	6	1	3	0	10	60%	10%	30%
					16190			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xvii) Passing both the on-board diagnostic check and the I/M gas cap  
evaporative system test (if applicable)

166,233

See attached report:

(a)(2)(xvii) Vehicles Passing Both the OBD Test and Gas Cap, 2013

**(a)(2)(xvii) Vehicles Passing Both the OBD Test and Gas Cap, 2013**

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1991	0	0	1	0	1	0%	0%	100%
1993	0	0	1	0	1	0%	0%	100%
1995	0	1	2	0	3	0%	33%	66%
1996	225	141	437	0	803	28%	17%	54%
1997	3,605	2,061	6,716	1	12,383	29%	16%	54%
1998	360	169	636	0	1,165	30%	14%	54%
1999	5,137	3,549	9,629	0	18,315	28%	19%	52%
2000	423	229	856	0	1,508	28%	15%	56%
2001	5,944	3,380	12,432	1	21,757	27%	15%	57%
2002	462	255	874	0	1,591	29%	16%	54%
2003	8,030	4,653	13,291	42	26,016	30%	17%	51%
2004	351	272	682	1	1,306	26%	20%	52%
2005	9,626	5,051	15,037	27	29,741	32%	16%	50%
2006	323	264	570	0	1,157	27%	22%	49%
2007	9,008	5,497	15,895	1	30,401	29%	18%	52%
2008	210	269	481	0	960	21%	28%	50%
2009	4,528	3,303	10,986	1	18,818	24%	17%	58%
2010	105	88	114	0	307	34%	28%	37%
					166233			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xviii) Failing both the on-board diagnostic check and the I/M gas cap evaporative system test (if applicable)

22

See attached report:

(a)(2)(xviii) Vehicles Failing Both the OBD Test and Gas Cap, 2013

**(a)(2)(xviii) Vehicles Failing Both the OBD Test and Gas Cap, 2013**

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1996	3	0	0	0	3	100%	0%	0%
1997	2	0	2	0	4	50%	0%	50%
1999	0	0	1	0	1	0%	0%	100%
2001	1	0	1	0	2	50%	0%	50%
2002	0	0	1	0	1	0%	0%	100%
2003	0	1	3	0	4	0%	25%	75%
2005	1	1	2	0	4	25%	25%	50%
2007	0	0	2	0	2	0%	0%	100%
2009	0	0	1	0	1	0%	0%	100%
					22			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xix) MIL is commanded on and no codes are stored

147

See attached report:

(a)(2)(xix) MIL is Commanded On and No Codes Stored, 2013

**(a)(2)(xix) MIL is Commanded On and No Codes Stored, 2013**

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1996	2	1	4	0	7	28%	14%	57%
1997	2	0	12	0	14	14%	0%	85%
1999	8	4	11	0	23	34%	17%	47%
2000	0	1	1	0	2	0%	50%	50%
2001	4	1	20	0	25	16%	4%	80%
2002	0	0	3	0	3	0%	0%	100%
2003	12	0	17	0	29	41%	0%	58%
2004	0	0	2	0	2	0%	0%	100%
2005	15	1	7	0	23	65%	4%	30%
2006	0	0	2	0	2	0%	0%	100%
2007	4	4	7	0	15	26%	26%	46%
2009	0	1	1	0	2	0%	50%	50%
					147			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xx) MIL is not commanded on and codes are stored

879

See attached report:

(a)(2)(xx) MIL is NOT Commanded On but Codes are Stored, 2013



**(a)(2)(xx) MIL is NOT Commanded On but Codes are Stored, 2013**

	Type 1	Type 2	Type P	Other	Count	Type 1	Type 2	Type P
1996	6	1	7	0	14	42	7	50
1997	48	12	61	0	121	39	9	50
1998	8	3	12	0	23	34	13	52
1999	28	22	73	0	123	22	17	59
2000	13	0	13	0	26	50	0	50
2001	63	27	135	0	225	28	12	60
2002	5	1	26	0	32	15	3	81
2003	37	21	96	0	154	24	13	62
2004	6	3	10	0	19	31	15	52
2005	26	11	48	0	85	30	12	56
2006	0	0	6	0	6	0	0	100
2007	21	4	12	0	37	56	10	32
2008	0	0	5	0	5	0	0	100
2009	2	2	5	0	9	22	22	55
					879			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xxi) MIL is commanded on and codes are stored

15,338

See attached report:

(a)(2)(xxi) MIL is Commanded On and Codes Stored, 2013

**(a)(2)(xxi) MIL is Commanded On and Codes Stored, 2013**

	Type 1	Type 2	Type P	Other	Count	Type 1	Type 2	Type P
1991	0	0	1	0	1	0	0	100
1996	59	37	139	0	235	25	15	59
1997	678	361	1,291	0	2,330	29	15	55
1998	95	65	182	0	342	27	19	53
1999	652	457	1,457	0	2,566	25	17	56
2000	97	42	221	0	360	26	11	61
2001	893	379	2,136	0	3,408	26	11	62
2002	86	33	192	0	311	27	10	61
2003	721	328	1,324	0	2,373	30	13	55
2004	34	22	114	0	170	20	12	67
2005	587	279	890	0	1,756	33	15	50
2006	38	21	63	0	122	31	17	51
2007	290	164	589	0	1,043	27	15	56
2008	7	12	25	0	44	15	27	56
2009	64	48	155	0	267	23	17	58
2010	6	1	3	0	10	60	10	30
					15338			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xxii) MIL is not commanded on and no codes are stored

184,611

See attached report:

(a)(2)(xxii) MIL is NOT Commanded On and NO Codes Stored, 2013

**(a)(2)(xxii) MIL is NOT Commanded On and NO Codes Stored, 2013**

	Type 1	Type 2	Type P	Other		Type 1	Type 2	Type P
1991	0	0	1	0	1	0	0	100
1993	1	0	0	0	1	100	0	0
1994	0	0	1	0	1	0	0	100
1995	0	0	3	0	3	0	0	100
1996	301	172	578	0	1,051	28	16	54
1997	4,226	2,300	7,621	0	14,147	29	16	53
1998	455	238	864	0	1,557	29	15	55
1999	5,719	3,943	10,984	0	20,646	27	19	53
2000	548	299	1,152	0	1,999	27	14	57
2001	7,354	4,051	15,072	0	26,477	27	15	56
2002	604	332	1,258	0	2,194	27	15	57
2003	8,880	5,072	15,229	0	29,181	30	17	52
2004	419	336	854	0	1,609	26	20	53
2005	10,455	5,425	16,254	1	32,135	32	16	50
2006	369	296	673	0	1,338	27	22	50
2007	9,412	5,764	16,504	0	31,680	29	18	52
2008	228	285	534	0	1,047	21	27	51
2009	4,639	3,379	11,209	0	19,227	24	17	58
2010	107	90	120	0	317	33	28	37
					184611			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xxiii) Readiness status indicates that the evaluation is not complete for any module supported by on-board diagnostic systems

200,975

See attached report:

(a)(2)(xxiii) Readiness Indicates EVAL is NOT Complete for Any Supported Module, 2013

**(a)(2)(xxiii) Readiness Indicates EVAL is NOT Complete for Any Supported Module, 2013**

	Type 1	Type 2	Type P	Other	Count	Type 1	Type 2	Type P
1991	0	0	2	0	2	0	0	100
1993	1	0	0	0	1	100	0	0
1994	0	0	1	0	1	0	0	100
1995	0	0	3	0	3	0	0	100
1996	368	211	728	0	1,307	28	16	55
1997	4,954	2,673	8,985	0	16,612	29	16	54
1998	558	306	1,058	0	1,922	29	15	55
1999	6,407	4,426	12,525	0	23,358	27	18	53
2000	658	342	1,387	0	2,387	27	14	58
2001	8,314	4,458	17,363	0	30,135	27	14	57
2002	695	366	1,479	0	2,540	27	14	58
2003	9,649	5,422	16,666	0	31,737	30	17	52
2004	459	361	980	0	1,800	25	20	54
2005	11,083	5,716	17,199	1	33,999	32	16	50
2006	407	317	744	0	1,468	27	21	50
2007	9,727	5,936	17,112	0	32,775	29	18	52
2008	235	297	564	0	1,096	21	27	51
2009	4,705	3,430	11,370	0	19,505	24	17	58
2010	113	91	123	0	327	34	27	37
					200975			

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(3) The initial test volume by model year and test station

194,843

See attached report:

(a)(3) Initial test volume by Model Year and Station, 2013



**(a)(3) Initial test volume by Model Year and Station, 2013**

MODEL YEAR	STATION									TOTAL
	1	2	3	4	5	8	9			
1976	4	1	1	1	3	1	0			11
1977	23	38	12	23	15	22	16			149
1978	3	8	2	2	2	3	6			26
1979	43	49	35	32	32	22	28			241
1980	8	6	3	0	1	2	1			21
1981	28	16	19	26	18	19	17			143
1982	1	0	1	1	1	2	1			7
1983	50	37	19	22	16	27	25			196
1984	4	6	6	11	3	10	6			46
1985	82	100	41	82	53	57	55			470
1986	20	10	5	6	5	12	7			65
1987	135	143	70	106	68	67	79			668
1988	22	18	23	11	16	15	34			139
1989	317	282	141	214	131	151	213			1449
1990	34	25	14	14	14	25	34			160
1991	450	428	214	345	240	241	249			2167
1992	69	54	26	51	33	50	34			317
1993	861	893	422	646	434	468	540			4264
1994	135	108	56	74	58	80	79			590
1995	1,862	1,853	876	1,356	894	990	1,047			8878
1996	207	166	86	102	77	120	88			846
1997	2,800	2,860	1,281	2,304	1,448	1,392	1,603			13688
1998	304	232	89	180	103	131	144			1183
1999	3,866	4,231	1,829	3,398	2,253	1,890	2,323			19790
2000	400	308	122	254	140	171	138			1533
2001	4,368	5,322	2,051	4,626	2,887	1,935	2,702			23891
2002	434	274	126	272	152	133	174			1565
2003	4,457	6,322	2,347	5,675	3,722	1,957	3,064			27544
2004	310	246	101	222	145	126	115			1265
2005	4,496	7,175	2,474	6,663	4,354	2,098	3,550			30810
2006	299	239	49	196	149	99	132			1163
2007	3,934	7,230	2,551	7,259	4,831	1,805	3,511			31121
2008	203	194	64	211	147	75	102			996
2009	2,177	4,701	1,454	4,722	3,065	868	2,098			19085
2010	106	57	23	70	50	20	30			356
<b>Grand Total</b>	<b>32,512</b>	<b>43,632</b>	<b>16,633</b>	<b>39,177</b>	<b>25,560</b>	<b>15,084</b>	<b>22,245</b>			<b>194843</b>

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(4) The initial test failure rate by model year and test station

17,990

See attached report:

(a)(4) Initial Test Failure Rate by Model Year and Test Station, 2013

**(a)(4) Initial test Failure by Model Year and Station, 2013**

MODEL YEAR	STATION								TOTAL
	1	2	3	4	5	8	9		
1976	1	0	0	0	2	1	0	4	
1977	7	10	2	5	3	5	7	39	
1978	1	2	1	0	0	0	2	6	
1979	15	11	10	7	10	5	9	67	
1980	2	4	1	0	0	0	0	7	
1981	5	5	10	8	2	7	4	41	
1982	0	0	0	1	1	1	0	3	
1983	19	12	6	2	1	13	6	59	
1984	2	4	3	2	1	2	2	16	
1985	26	24	10	16	13	23	12	124	
1986	7	3	1	2	1	4	0	18	
1987	48	33	14	22	14	24	24	179	
1988	8	4	9	6	5	6	7	45	
1989	71	60	34	40	22	55	57	339	
1990	10	5	3	5	6	17	8	54	
1991	166	116	59	97	51	87	68	644	
1992	32	20	11	25	7	18	18	131	
1993	296	234	119	144	103	202	151	1249	
1994	47	40	21	24	15	36	19	202	
1995	495	370	174	262	156	313	241	2011	
1996	43	33	12	12	12	28	12	152	
1997	479	343	157	262	147	344	229	1961	
1998	67	38	8	29	15	33	24	214	
1999	508	422	173	292	179	339	257	2170	
2000	62	37	15	26	12	46	15	213	
2001	611	511	204	422	269	422	330	2769	
2002	54	42	17	27	10	26	20	196	
2003	427	402	143	365	212	268	234	2051	
2004	36	23	5	12	6	16	9	107	
2005	290	284	114	285	186	219	186	1564	
2006	22	15	5	14	7	15	11	89	
2007	165	190	67	189	132	113	108	964	
2008	11	3	1	8	6	4	5	38	
2009	40	42	23	57	47	22	23	254	
2010	6	2	1	1	0	0	0	10	
Grand Total	4,079	3,344	1,433	2,669	1,653	2,714	2,098	17990	

2013 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(5) The average increase or decrease in tailpipe emission levels for HC, CO, and NOX (if applicable) after repairs by model year and vehicle type for vehicles receiving a mass emissions test.

See attached report:

Emissions Improvement by Model Year 2013

Note: Emissions improvement data reported in grams per mile improvement is reported as zero in this report if the average improvement is 00.49 gpm or less.

## Emissions Improvement by Model Year 2013

Model Year	Initial IM93 Tests #	Initial IM93 Failures #	Initial IM93 Failures %	Compliance After Repair Total	Compliance After Repair Pass	Compliance After Repair Waiver	Avg Improvement HC (grams/mile)	Avg Improvement CO (grams/mile)	Avg Improvement NOX (grams/mile)
1981	1	1	100.00%	1	1	0	0	0	0
1983	2	1	50.00%	2	2	0	0	0	0
1984	2	1	50.00%	1	1	0	0	0	0
1985	9	4	44.40%	3	3	0	0	0	0
1987	68	29	42.60%	14	14	0	0	0	0
1988	6	3	50.00%	3	3	0	0	0	0
1989	186	65	34.90%	25	25	0	0	0	0
1990	5	3	60.00%	3	3	0	0	0	0
1991	302	107	35.40%	35	35	0	0	0	0
1992	8	5	62.50%	3	3	0	0	0	0
1993	1512	500	33.10%	79	79	0	0	0	0
1994	25	11	44.00%	10	10	0	0	0	0
1995	4564	1090	23.90%	124	124	0	0	0	0
1996	1	1	100.00%	1	1	0	0	0	0
1999	5	1	20.00%	2	2	0	0	0	0
2002	1	1	100.00%	1	1	0	0	0	0
<b>Overall Total</b>	<b>6697</b>	<b>1823</b>	<b>27.20%</b>	<b>307</b>	<b>307</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>